

REMARKS/ARGUMENTS

Overview of the Office Action

Claims 1, 2, 8, 9, 15-20, and 22-27 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini et al. (U.S. Patent No. 5,760,788) in view of Banning et al. (U.S. Patent No. 5,485,567).

Claims 3-7, 21, and 28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Washburn et al. (U.S. Patent No. 5,157,779).

Claim 12 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Peddada et al. (U.S. Patent No. 6,031,533).

Claim 13 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Gupta et al. (U.S. Patent No. 6,484,156).

Claim 14 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view in view of Gupta in further view of O'Donnell et al. (U.S. Patent No. 6,223,203).

Status of the Claims/Amendments

Claims 1-9 and 12-28 are pending.

Claims Rejected Under 35 U.S.C. § 103(a)

Claims 1, 2, 8, 9, 15-20, and 22-27 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini et al. in view of Banning. It is respectfully submitted that claims 1, 2, 8, 9, 15-20, and 22-27 are allowable over the art of record for the reasons set forth below.

Claims 1, 15, and 22 include features that are neither disclosed nor suggested by the art of record, namely, as represented by claim 1:

A computerized system for software development comprising:
a source code editor operable to edit a source code module;
a graphical design surface operable to display a graphical object representing actual code of the source code module; and
wherein upon a change in the source code module, the change in the source code is immediately communicated to the graphical design surface and the graphical design surface is

updated to reflect the change in the source code module, wherein the design surface displays the graphical object, the graphical object represents a database object, the design surface is operative to bind a particular database system to the database object, the database object further includes a database column, the source code module includes a variable, and the design surface is operative to bind the database column to the variable. (emphasis added)

The present invention as recited in claim 1 is directed to a system that comprises a source code editor that can edit a source code module, and a graphical design surface that can display a graphical object representing code of the source code module. The graphical design surface displays a database object, including a database column. The graphical design surface can bind the database column to a variable of the source code module.

Chainini is directed to a graphical programming application that is intended to be run under a graphic user interface operating system. The application is directed to teaching children how to program through interaction with simplistic graphical objects, such as monkeys and bananas, that represent programming objects. As acknowledged by the Office Action, Chainini fails to disclose or suggest a graphical object representing a database object, including a database column.

The Office Action states that Banning discloses a graphical object representing a column of a database. However, even if Banning taught such a feature, Chainini clearly teaches against combining its teachings with those of Banning. Furthermore, such a combination would be inoperable.

Chainini teaches away from combining the references because the addition of a database object would complicate and defeat Chainini's goals of simplicity and appeal to children. The invention as described in Chainini is directed towards teaching children to program through graphical objects. The specification states "it is contemplated that the present invention will be sold as an application program specifically intended to entertain and to educate children in the ages of eight to twelve (Chainini, col. 6, ll. 61-65). Chainini criticizes prior art graphical programming system because they use "predefined tools and control actions that are intended for adults, i.e. for use in business or in connection with adult hobbies and interests that are typically boring to young children" (Id., col. 2, ll. 13-17). In addition, Chainini states that "[e]ven if adults or children use such program development applications, they typically do not progress in their

programming skills” (Id., col. 2, ll. 17-19). Thus, Chainini teaches away from combining the graphical database objects allegedly taught by Banning with the computer programming learning tool taught by Chainini, because adding such a feature would necessarily complicate the learning tool and thwart its goal of teaching children to program by adding “control actions” that are “intended for adults” and would be “boring to young children.”

In addition, the proposed combinations of Banning with Chainini would be inoperable. An exemplary screen shot of the programming teaching application taught by Chainini is illustrated in Figure 11. Users are able to program the actions of The Kongo King by selecting such actions as “Burp” and “Dance”. It is respectfully submitted that it is inconceivable how a complex data structure such as a database object could be incorporated into the simplistic cartoon style teaching application as shown Chainini. Would the programming student have The Kongo King burp at, or dance with, a selected database? Would the database object icon appear next to the banana icon or the barrel icon? Such scenarios are clearly ridiculous and meant to emphasize how the combination of Banning with Chainini would be so useless as to be completely inoperable together.

Because Chainini teaches away from the combination with Banning, and such a combination would be inoperable, it is respectfully requested that the Examiner withdraw the 35 U.S.C. § 103(a) rejection and allow claim 1.

Claims 15 and 22 recite similar features as those set forth above with respect to claim 1. Based on the foregoing, 1, 15 and 22, and all claims dependent therefrom, including claims 2, 8, 9, 16-20, and 23-27, should not be rejected as being unpatentable over Chainini and Banning. Therefore, withdrawal of the rejections of claims 1, 2, 8, 9, 15-20, and 22-27 under 35 U.S.C. § 103(a) is respectfully requested.

Claims 3-7, 21, and 28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Washburn et al. (U.S. Patent No. 5,157,779). Claim 12 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Peddada et al. (U.S. Patent No. 6,031,533). Claim 13 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view of Gupta et al. (U.S. Patent No. 6,484,156). Claim 14 was rejected under 35

U.S.C. § 103(a) as being unpatentable over Chainini in view of Banning and further in view in view of Gupta in further view of O'Donnell et al. (U.S. Patent No. 6,223,203).

It is respectfully submitted that claims 3-7, 12-14, 21, and 28 are allowable over the art of record for the reasons set forth below.

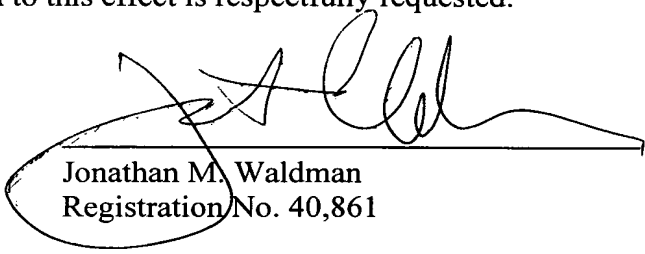
Claims 3-7 and 12-14 are dependent from claim 1, claim 21 is dependent from claim 15, and claim 28 is dependent from claim 22, and are therefore patentable for the reasons set forth above with respect to claims 1, 15, and 22. Washburn, Peddada, Gupta, and O'Donnell each fail to cure the deficiencies of the Chainini and Banning references. Washburn is directed to a user extensible automated testing system. Peddada is directed to a graphical user interface on a client network device. Gupta is directed to a server that uses a hierarchical annotation storage structure. O'Donnell is directed to performing parallel management operations on a computer system. None of this prior art discloses or suggests a graphical object representing a database object, including a database column, and none of this prior art provides motivation for combining a database object with the teachings of the Chainini reference. Therefore, withdrawal of the rejections of claims 3-7, 12-14, 21, and 28 is respectfully requested.

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**PATENT
REPLY FILED UNDER EXPEDITED
PROCEDURE PURSUANT TO
37 CFR § 1.116**

In view of the foregoing remarks, Applicants submit that the above-identified application is in condition for allowance. Early notification to this effect is respectfully requested.

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Jonathan M. Waldman
Registration No. 40,861

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439